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APPLICATION NO.	FILING	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION N
09/498,772	02/05	/2000	Alex Krister Raith	P-4015.398/P10569-BMOT-US	9286
7	7590	03/15/2002			
David E Bennett				EXAMINER	
Coat & Bennet PO Box 5	tt PLLC		IQBAL, KHAWAR		
Raleigh, NC	Raleigh, NC 27602			ART UNIT	PAPER NUMBER
				2685	/
				DATE MAILED: 03/15/2002	6

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	<del></del>
		09/498,772	RAITH, ALEX KR	<i>V</i> ISTER
	Office Action Summary	Examiner	Art Unit	
	•	Khawar Iqbal	2685	
	The MAILING DATE of this communication app			ldress
THE - Exte after - If the	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply In period for reply is specified above, the maximum statutory period we	36(a). In no event, however, may a reply be ti	mely filed	y <sub>.</sub> .
- Pallu - Any i	re to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	cause the application to become ARANDONI	FD (35115 C & 133)	ommunication.
1)⊠	Responsive to communication(s) filed on 29 J	lanuary 2002 .		
2a) <u></u>	This action is <b>FINAL</b> . 2b)⊠ Thi	is action is non-final.		
3)☐ Dispositi	Since this application is in condition for allowa closed in accordance with the practice under to on of Claims	nce except for formal matters, p Ex parte Quayle, 1935 C.D. 11,	rosecution as to th 453 O.G. 213.	e merits is
4)⊠	Claim(s) 1-26 and 31-49 is/are pending in the	application.		
	4a) Of the above claim(s) is/are withdraw	vn from consideration.		
5) 🗌	Claim(s) is/are allowed.			
6)⊠	Claim(s) 1-26 and 31-49 is/are rejected.			
7) 🗌	Claim(s) is/are objected to.			
8) 🗌	Claim(s) are subject to restriction and/or	election requirement.		
Applicati	on Papers			
9) 🗌 🗆	The specification is objected to by the Examiner			
10) 🔲 🗆	The drawing(s) filed on is/are: a)☐ accept	ted or b)⊡ objected to <b>by the Exa</b>	miner.	
_	Applicant may not request that any objection to the		• •	
11) 🗌 1	he proposed drawing correction filed on	is: a) ☐ approved b) ☐ disappro	oved by the Examine	er.
_	If approved, corrected drawings are required in rep	•		
12)[_] 1	he oath or declaration is objected to by the Exa	miner.		
Priority u	nder 35 U.S.C. §§ 119 and 120			
13)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	ı)-(d) or (f).	
a)[	☐All b)☐ Some * c)☐ None of:			
	1. Certified copies of the priority documents	have been received.		
:	2. Certified copies of the priority documents	have been received in Applicati	on No	
	3. Copies of the certified copies of the priori application from the International Bure ee the attached detailed Office action for a list of	eau (PCT Rule 17.2(a)).		Stage
	cknowledgment is made of a claim for domestic	•		application)
a)	☐ The translation of the foreign language prov cknowledgment is made of a claim for domestic	risional application has been rec	eived.	- p p a
Attachment(	•			
2) Notice 3) Inform	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	(PTO-413) Paper No(s Patent Application (PTO	s) -152)
S. Patent and Tra TO-326 (Rev		on Summary	Part of P	aper No. 06

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#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- 2. Claim1-9, 12-23,26,31-49 are rejected under 35 U.S.C. 102(e) as being anticipated by Souissi et al (6167268).
- 1. Regarding claim 1 Souissi et al teach method of channel selection for a mobile station comprising:

determining a position of said mobile station (col. 3, 55-67),

periodically performing channel quality measurements of signals transmitted from one or more base stations (col. 1, lines 44-67) wherein a frequency of performing said channel quality measurements is a function of said position of said mobile station (col.4, lines 9-41, col. 6, lines 16-32).

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2. Regarding claims 2,16,26,32,37 and 45 Souissi et al teach frequency of performing said channel quality measurements is a function of the relative position of said mobile station with respect to a first base station serving said mobile station (col. 5, lines 5-20).

- 3. Regarding claims 3,17,33,40 and 46 Souissi et al teach frequency of performing said channel quality measurements is a function of the relative position of said mobile station with respect to a first base station serving said mobile station and at least one additional base station (col. 4, lines 50-64, fig. 1).
- 4. Regarding claims 4 and 18 Souissi et al teach position of said at least one additional base station is transmitted to said mobile station by said first base station (col. 4, lines 50-64, col. 5, lines 22-40).
- 5. Regarding claims 5,6,19,20,34,41,47 Souissi et al teach position of said at least one additional base station is included in a neighbor list transmitted to said mobile station by said first base station, frequency of performing said channel quality measurements is a function of the mobility of said mobile station (col. 5, lines 21-67).
- 6. Regarding claims 7,8,21,22,35,36,42,43,48 and 49 Souissi et al teach frequency of performing said channel quality measurements is a function of the rate of change of said position of said mobile station (col. 6, lines 33-65, col. 6, figs. 4-6).
- 7. Regarding claims 9 and 23 Souissi et al teach channel quality measurements are performed by said mobile station while said mobile station is in an idle mode (col. 6, lines 1-15).

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12.

- 8. Regarding claim 12 Souissi et al teach mobile station uses said channel quality measurement for cell reselection (col. 4, lines 30-41, col. 6, lines 22-32).
- 9. Regarding claim 13 Souissi et al teach further including transmitting said channel quality measurements from said mobile station to a first base station serving said mobile station (col. 4, lines 10-41).
- 10. Regarding claims 14 and 26 Souissi et al teach making hand-off determinations at said first base station based on said channel quality measurements (col.6, line 50 through col. 7, line 8, fig. 6).
- 11. Regarding claim15 Souissi et al teach a method of determining the position of a mobile station (abstract, fig. 1) comprising: determining a position of said mobile station at a first time instant (figs. 1-7, col.3, line 55-col.4, line 8); updating said position periodically, (col. 1, lines 44-67) wherein a frequency of said updating is a function of said position of said mobile station (col.4, lines 9-41, col. 6, lines 16-32).

Regarding claim 31 Souissi et al teach a mobile station comprising:

- a transceiver transmitting and receiving radio frequency signals (col.4, lines 1-40);
  a signal processor operatively connected to said transceiver, said signal processor
  periodically (col. 6, lines 16-30) performing channel quality measurements on selected signals
  received by said transceiver; control logic controlling said signal processor and said transceiver
  to vary the frequency of performing said channel quality measurements as a function of the
  position of said mobile station(col. 5, lines 21-66).
- Regarding claim 38 Souissi et al teach a mobile station comprising:
   a transceiver transmitting and receiving radio frequency signals (col. 4, lines 1-40);

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a positioning receiver periodically (col. 6, lines 16-30) determining a position of said mobile station; control logic controlling said transceiver and said positioning receiver, wherein said control logic varies the frequency of determining said position of said mobile station as a function of said position (col.4, lines 9-41, col. 6, lines 16-32, col. 5 lines 21-66).

14. Regarding claim 44 Souissi et al teach A method of controlling a mobile station comprising:

determining a position of said mobile station (col. 3, 55-67);

and performing a periodic task (col. 1, lines 44-67), wherein a frequency of performing said task is a function of said position of said mobile station (col.4, lines 9-41, col. 6, lines 16-32).

## Claim Rejections - 35 USC § 103

- 15. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 16. Claims10, 11,24 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Souissi et al (6167268) and further in view of O'Neal et al (#6263064).
- 17. Regarding claims 10,11,24 and 25 Souissi et al do not specifically teach packet switched call and circuit switched call. In an analogous art, O'Neal et al disclose packet switched call and circuit switched call (col. 10, lines 45-67, col. 11, lines 1-7). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of O'Neal et al user packet switched call and circuit switched call modify into the system of Souissi et al channel selection procedures very depending on whether circuit-switched or packet-switched connection are used in wireless communication system.

## Response to Arguments

1. Applicant's arguments with respect to claims1-26 and 31-49 have been considered but are most in view of the new ground(s) of rejection.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure Birchler et al (# 6161015), Sasuta et al (# 6134446), Vannucci (# 6118977), Endo (5943610), Hill et al (5857155) and Murray (5831545) teach communication channel and position selection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHAWAR IQBAL whose telephone number is 703-306-3015.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, EDWARD URBAN, can be reached at 703-305-4385.

# Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

### or faxed to:

(703) 872-9314 (for Technology Center 2684 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Khawar Iqbal

3-6-02

LESTER G. KINCAID PRIMARY EXAMINER